This section of the service guide contains service information for the A-dec 500 Support Side System. The support side system provides modules for assistant and patient use. These modules allow easy access to tools and quick storage.

This section provides information related to servicing, maintenance, and adjustments. Detail on how to service the support side and troubleshoot specific problems is presented. For information on service parts, see the *Genuine A-dec Service Parts Catalog* or contact A-dec customer service.

How to Identify Support Side Modules

The A-dec 500 support side system includes; the A-dec 551 assistant's instrumentation, the A-dec 561 cuspidor and monitor mount, the A-dec 571 dental light, and the amalgam separator housing.

Support side modules can be rotated at 90° right or left of the chair by loosening the locking knob on the support link.

The A-dec 571 dental lights is addressed in the *Dental Light* section of this service guide.

Item #	Description
1	Support link
2	Lower support arm
3	Assistant's instrumentation and touchpad
4	Cuspidor
5	Support center
6	Water bottle
7	Monitor mount
8	Dental light

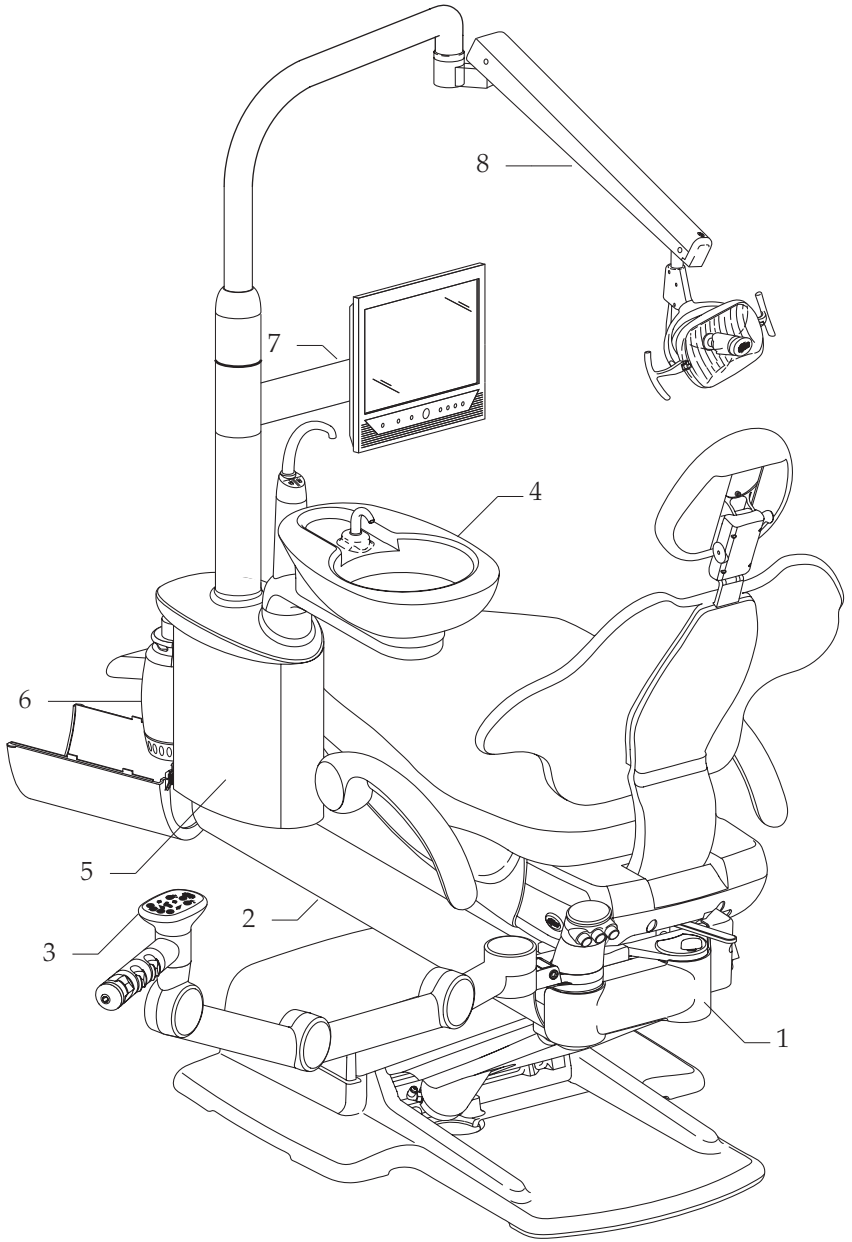

Figure 60. Identifying the support side modules.

How to Identify Support Side Components

Lower Support Arm

The support link is the hub for all modules that will mount off the back of the chair. The support system requires both a support link and a lower support arm. Assistant's instrumentation requires only a support link.

Item #	Part Number	Description
1	77.0373.00	Locking knob
2	77.0278.00	Support link
3	77.0286.00	Lower support arm
4	77.0380.00	Support link cover (90.1096.00 support link cover kit)

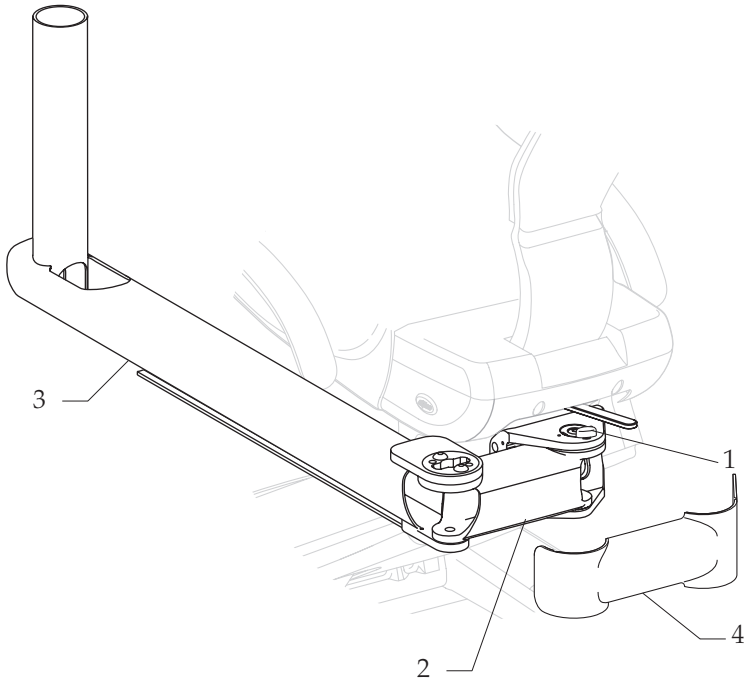

Figure 61. Identifying the support link and lower support arm.

Support Link (P/N 77.0278.00)

The support link mounts to the back of the chair with four bolts. A leveling bar, which levels the support link and lower support arm, is mounted to the back of the chair using two dowel pins.

Item #	Part Number	Description
1	77.0278.00	Support link
2	001.094.00	Mounting bolt
3	77.0239.00	Leveling bar
4	006.148.00	Locking nut
5	77.0373.00	Locking knob
6	77.0374.00	Small bearing cap cover
7	77.0376.00	Support link cover, left
8	77.0377.00	Support link cover, right
9	002.051.00	Socket head screw, 10-32 X 1/2
10	004.240.00	Washer, 1/2"

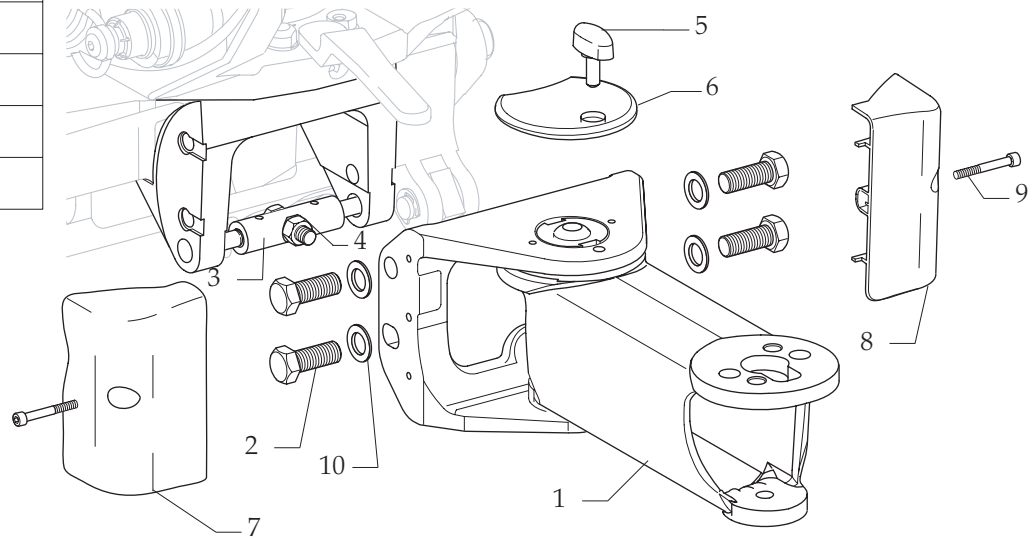

Figure 62. Identifying support link components.

How to Level the Support Link and Lower Support Arm

Equipment Positioning

Support side modules may require leveling. Level the support link and lower support arm by adjusting the leveling bolt in the support link assembly. Note where the support system will be positioned before leveling.

- Level the equipment with the modules positioned 90° to the back of the chair, if the support system will be used both in a left and right positions.
- Level the equipment with the modules in a normal operating position, if the support system will be used in a stationary position.

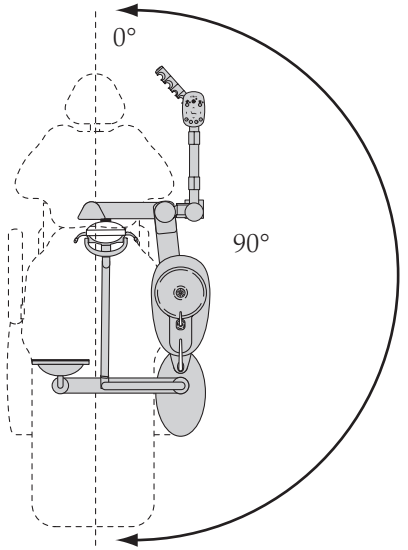

Figure 63. Level equipment with modules at 90° to the back of the chair for left and right positioning.

Support Link and Lower Support Arm Leveling

NOTE: The stop switch assembly may have to be removed. Be sure to power off the chair and disconnect it from its power source before replacing the stop switch.

1. Loosen the four mounting bolts on the support link.
2. Loosen the locking nut.
3. Place a level parallel on the lower support arm, and adjust the leveling bar bolt until the lower support arm is level.
4. Tighten the locking nut against the leveling bar.
5. Tighten the four mounting bolts as tight as possible (65 ft lb of torque).

Item #	Description
1	Stop switch assembly
2	Support link
3	Mounting bolts
4	Leveling bar
5	Locking nut

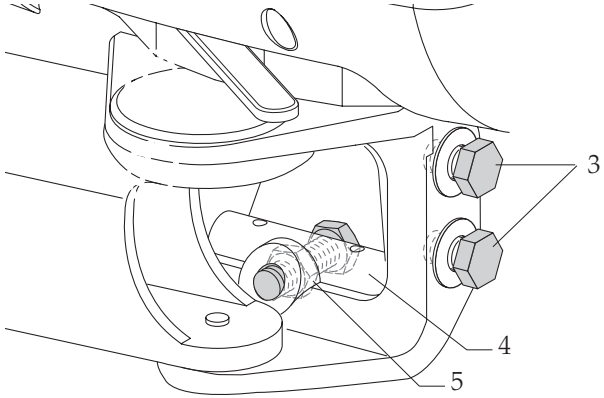

Figure 64. Tighten the locking nut against the leveling bar.

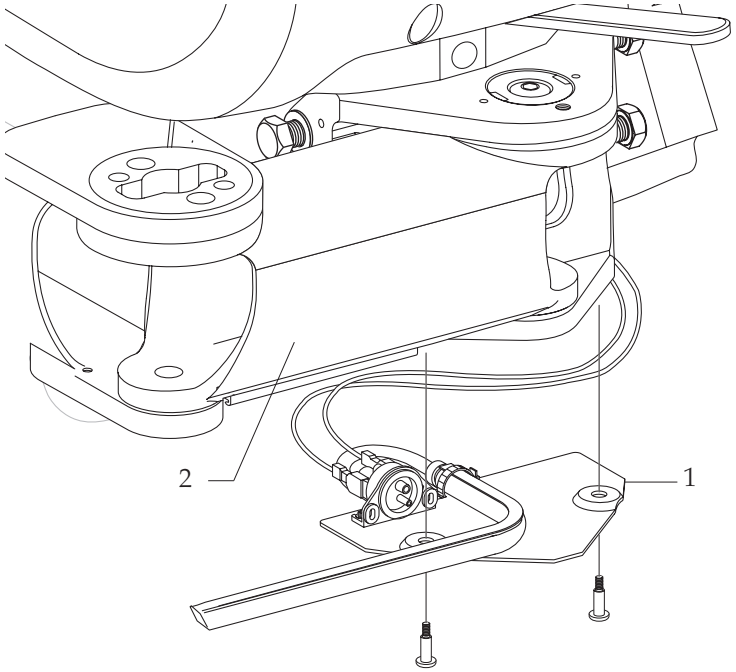

Figure 65. Remove the limit switch assembly.

How the Stop Switch Operates

The support side stop switch stops chair movement immediately when pressed. Be sure to power off the chair and disconnect it from its power source before replacing the stop switch.

Bump-Up Feature

The stop switch triggers the chair to move upwards, approximately one inch, if it was moving down when the switch was activated.

Item #	Part Number	Description
1	77.0354.00*	Tubing guide, short
2	77.0357.00*	Actuator plate
3	002.140.00	Screws, patch button head
4	77.0361.00	Stand-off screw
5	43.0087.00	Limit switch kit with (2) 001.219.00 socket head screws, and 023.123.00 stop switch actuator barb
6	024.141.00	Tubing, 1/4" OD, D-Surf, 4"
7	025.002.01	Cable tie, pkg 10
8	77.0360.00	Stop switch tubing (long)
	77.0359.00	Stop switch tubing (short) for assistant's instrumentation only

* Item not for sale.

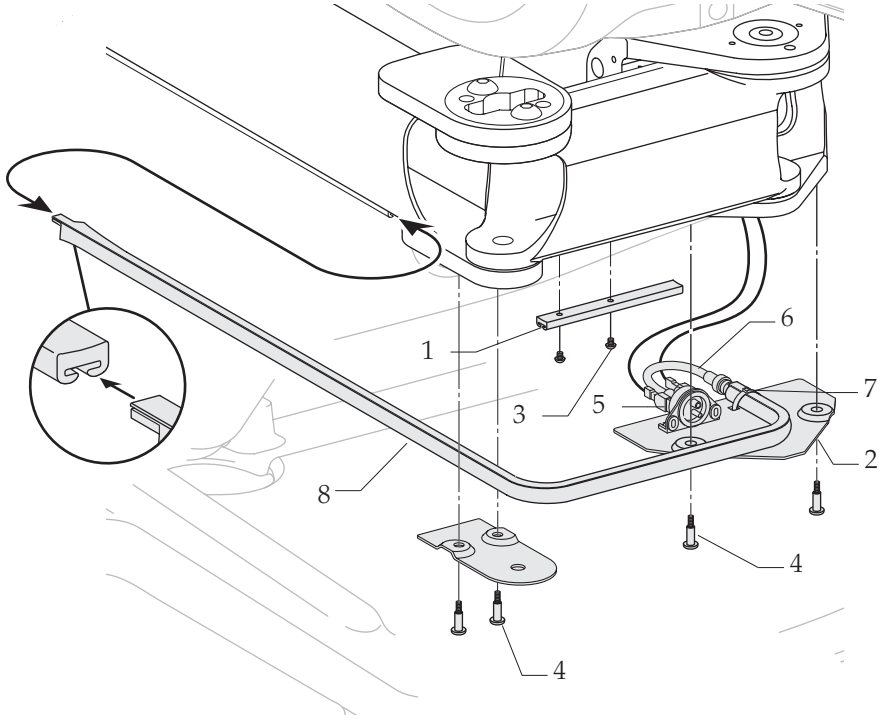

Figure 66. Identifying the support side stop switch components.

Support Side Stop Switch Electrical Diagram